

1080691.txt  
SEQUENCE LISTING

<110> Cramer, Reto  
Hemman, Stefanie  
Blaser, Kurt

<120> Methods for Diagnosis of Allergic Bronchopulmonary  
Aspergillosis

<130> 10806-93

<140>

<141> 2003-07-02

<150> SE9604815-2

<151> 1996-12-20

<150> PCT/SE97/02171

<151> 1997-12-19

<150> US09/319806

<151> 1999-08-19

<160> 8

<170> PatentIn Ver. 2.1

<210> 1

<211> 624

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: recombinant  
allergen rAsp f6

<400> 1

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cagatcatgg	agctgcacca	caaaaagcac	catcaaaact	acgtcaatgg	ccgtgaatgcc	120
gcactctcgg	cgcagaagaa	agcggcggaa	gccaacgacg	tcaccaagct	cggtctccgtg	180
cagcaagcga	tcaaattcaa	cggcgggggg	cacatcaacc	attccctctt	ctgggaagaat	240
ctggccctcg	agaaatccgg	gggtggcaag	atcgatcagg	caccggctct	caaagcagcc	300
atcgagcagc	gttggggatc	cttcgataag	ttcaaggatg	ctttcaacac	gactctgctg	360
ggcattcagg	gcagcggatg	gggttggtta	gtgaccgacg	gacccaaggg	aaagctagac	420
attaccacaa	cccacgacca	ggatccgggt	accggggcgg	ccccgcctt	tggggtggat	480
atgtgggagc	atgcttacta	cttcagttac	ttgaacgaca	aagctctgta	tgccaagggc	540
atctggaacg	tgatcaactg	ggctgaagcg	gagaatcggt	acatagcggg	tgacaagggg	600
ggacaccct	tcataagct	gtga				624

<210> 2

<211> 207

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: recombinant  
allergen rAsp f6

<400> 2

Gln	Tyr	Thr	Leu	Pro	Pro	Leu	Pro	Tyr	Pro	Tyr	Asp	Ala	Leu	Gln	Pro
1					5					10				15	

Tyr Ile Ser Gln Gln Ile Met Glu Leu His His Lys Lys His His Gln

Thr Tyr Val<sup>35</sup> Asn Gly Leu Asn<sup>40</sup> Ala Ala Leu Glu Ala<sup>45</sup> Gln Lys Lys Ala  
 Ala Glu Ala Asn Asp Val<sup>50</sup> Pro<sup>55</sup> Lys Leu Val Ser Val<sup>60</sup> Gln Gln Ala Ile  
 Lys Phe Asn Gly Gly<sup>65</sup> Gly<sup>70</sup> His Ile Asn His<sup>75</sup> Ser Leu Phe Trp Lys Asn<sup>80</sup>  
 Leu Ala Pro Glu Lys<sup>85</sup> Ser Gly Gly Gly<sup>90</sup> Lys Ile Asp Gln Ala Pro Val<sup>95</sup>  
 Leu Lys Ala Ala<sup>100</sup> Ile Glu Gln Arg Trp<sup>105</sup> Gly Ser Phe Asp Lys<sup>110</sup> Phe Lys  
 Asp Ala Phe Asn Thr Thr Leu<sup>115</sup> Leu Gly Ile Gln Gly<sup>120</sup> Ser Gly Trp Gly<sup>125</sup>  
 Trp Leu Val Thr Asp Gly<sup>130</sup> Pro<sup>135</sup> Lys Gly Lys Leu Asp<sup>140</sup> Ile Thr Thr Thr  
 His Asp Gln Asp Pro<sup>145</sup> Val<sup>150</sup> Thr Gly Ala Ala<sup>155</sup> Pro Val Phe Gly Val Asp<sup>160</sup>  
 Met Trp Glu His Ala<sup>165</sup> Tyr Tyr Leu Gln Tyr<sup>170</sup> Leu Asn Asp Lys Ala<sup>175</sup> Ser  
 Tyr Ala Lys Gly<sup>180</sup> Ile Trp Asn Val<sup>185</sup> Ile Asn Trp Ala Glu Ala<sup>190</sup> Glu Asn  
 Arg Tyr Ile Ala Gly Asp Lys<sup>195</sup> Gly<sup>200</sup> Gly His Pro Phe Met<sup>205</sup> Lys Leu

<210> 3  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: recombinant  
 allergen rAsp f4

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 aacgctgtgg ctgccgccgc gcgccgttct actccggagc ccagctcttc ccactccgac 180  
 agttcttcat cctccggcgt ctccgcgcag tggaccaaca cccctgcgca aggcgagtac 240  
 tgcactgacg gcttcgggtgg caggaccgaa ccagcggct ccggtatctt ctacaagggc 300  
 aacgcttgga aaccctgggg cagcaacatc atcgagggtc cccccgagaa cgccaagaa 360  
 tacaagcagc tcgctcagtt tgltygcagc gacactgacc ctgggaccgt tgtctcttgg 420  
 aacaagatgc gccccgatgg tggccttact ggctgtgacg gtaactccgc tctgaccctc 480  
 cacctcgagg ccggtgagac caagtagctg gcattcgacg agaactccca ggggtgcctgg 540  
 ggcgcgcgaa agggcgacga gctgcccga gaccagtttg gtgggtactc ttgcacctgg 600  
 ggtgagttcg actttgacag caaaatcaac caccgctggg ctggctggga cgtgtccgcc 660  
 attcaggcgc agaattgccc ccatgagggt cagggtatga agatctgc aaacgcggcg 720  
 gagctctgct ccatcatctc ccacggctct tccaagggtc ttgacgccta cactgctgat 780  
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<210> 4  
 <211> 286

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: recombinant  
allergan rAsp f4

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Gly Glu Val Gly Asp Thr Val Tyr Ala Thr Ile Asn Gly Val Leu Val  
1 5 10 15  
Ser Trp Ile Asn Glu Trp Ser Gly Glu Ala Lys Thr Ser Asp Ala Pro  
20 25 30  
Val Ser Gln Ala Thr Pro Val Ser Asn Ala Val Ala Ala Ala Ala  
35 40 45  
Ala Ser Thr Pro Glu Pro Ser Ser Ser His Ser Asp Ser Ser Ser Ser  
50 55 60  
Ser Gly Val Ser Ala Asp Trp Thr Asn Thr Pro Ala Glu Gly Glu Tyr  
65 70 75 80  
Cys Thr Asp Gly Phe Gly Gly Arg Thr Glu Pro Ser Gly Ser Gly Ile  
85 90 95  
Phe Tyr Lys Gly Asn Val Gly Lys Pro Trp Gly Ser Asn Ile Ile Glu  
100 105 110  
Val Ser Pro Glu Asn Ala Lys Lys Tyr Lys His Val Ala Gln Phe Val  
115 120 125  
Gly Ser Asp Thr Asp Pro Trp Thr Val Val Phe Trp Asn Lys Ile Gly  
130 135 140  
Pro Asp Gly Gly Leu Thr Gly Trp Tyr Gly Asn Ser Ala Leu Thr Leu  
145 150 155 160  
His Leu Glu Ala Gly Glu Thr Lys Tyr Val Ala Phe Asp Glu Asn Ser  
165 170 175  
Gln Gly Ala Trp Gly Ala Ala Lys Gly Asp Glu Leu Pro Lys Asp Gln  
180 185 190  
Phe Gly Gly Tyr Ser Cys Thr Trp Gly Glu Phe Asp Phe Asp Ser Lys  
195 200 205  
Ile Asn His Gly Trp Ser Gly Trp Asp Val Ser Ala Ile Gln Ala Glu  
210 215 220  
Asn Ala His His Glu Val Gln Gly Met Lys Ile Cys Asn His Ala Gly  
225 230 235 240  
Glu Leu Cys Ser Ile Ile Ser His Gly Leu Ser Lys Val Ile Asp Ala  
245 250 255  
Tyr Thr Ala Asp Leu Ala Gly Val Asp Gly Ile Gly Gly Lys Val Val  
260 265 270  
Pro Gly Pro Thr Arg Leu Val Val Asn Leu Asp Tyr Lys Glu  
275 280 285

<210> 5

<211> 336  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: recombinant  
 allergen rAsp f8

<400> 5  
 atgaagtacc tcgcagcttt cctcctcctc gcccttgctg gcaacacctc cccgtcctct 60  
 gaggatgtca aggccgtcct ctcttcggtt ggcattgatg ccgatgagga gcgcctgaac 120  
 aagcttcattg ctgagctcga gggaaggac ctccaggagc tcattgcga gggttcacc 180  
 aagctcgctt ccgttcctc cgggtggtct gccgccgtg ctctgcgc tgccggtgcc 240  
 gctgccggtg gtgctgctgc tctgcccgt aaggagaaga atgaggagga gaaggaggag 300  
 tccgacgagg acatgggctt cggctcttc gactaa 336

<210> 6  
 <211> 111  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: recombinant  
 allergen rAsp f8

<400> 6  
 Met Lys Tyr Leu Ala Ala Phe Leu Leu Ala Leu Ala Gly Asn Thr  
 1 5 10 15  
 Ser Pro Ser Ser Glu Asp Val Lys Ala Val Leu Ser Ser Val Gly Ile  
 20 25 30  
 Asp Ala Asp Glu Glu Arg Leu Asn Lys Leu Ile Ala Glu Leu Glu Gly  
 35 40 45  
 Lys Asp Leu Glu Glu Leu Ile Ala Glu Gly Ser Thr Lys Leu Ala Ser  
 50 55 60  
 Val Pro Ser Gly Gly Ala Ala Ala Ala Pro Ala Ala Ala Gly Ala  
 65 70 75 80  
 Ala Ala Gly Gly Ala Ala Pro Ala Ala Lys Glu Lys Asn Glu Glu  
 85 90 95  
 Glu Lys Glu Glu Ser Asp Glu Asp Met Gly Phe Gly Leu Phe Asp  
 100 105 110

<210> 7  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: residue for  
 attachment to C-terminus

<400> 7  
 Val Glu His His His His His  
 1 5

<210> 8

<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: residue for  
attachment to N-terminal end

<400> 8  
Met Arg Gly Ser His His His His His Met  
1 . 5 10